

What is claimed is:

1. An ink jet head comprising:

a plurality of pressure chambers arranged in parallel, each of which communicates with an ink supplying path, each chamber being defined by side walls, wherein the plurality of pressure chambers comprise a printing region and a non-printing region;

an ejecting nozzle provided at one end of the pressure chamber in the printing region;

pressure means for varying a capacity in the pressure chamber according to a driving signal;

a dummy nozzle provided at one end of the pressure chamber in the non-printing region, and has a shape set to have an aperture area at the ink ejecting side greater than an aperture area of the ejecting nozzle and to have a flow impedance same as that of the ejecting nozzle; and

head driving means that selectively varies the capacity in the pressure chamber by applying the driving signal to the pressure means, to eject ink from the ejecting nozzle, wherein, when selectively varying the capacity in the pressure chamber positioned at an end of the printing region, the head driving means selectively varies the capacity in the pressure chamber in the non-printing region simultaneously.

2. An ink jet head according to claim 1, wherein the aperture

diameter of the ejecting nozzle at the side of the pressure chamber is set greater than an aperture diameter at the external side, while an aperture diameter of the dummy nozzle at the side of the pressure chamber is set smaller than an aperture diameter at the ink ejecting side.

3. An ink jet head according to claim 2, wherein the ejecting nozzle and the dummy nozzle are formed to have a symmetrical shape with respect to the ejecting direction of an ink droplet.

4. An ink jet printer comprising:

an ink jet head including: a plurality of pressure chambers arranged in parallel, each of which communicates with an ink supplying path, each chamber being defined by sidewalls, wherein the plurality of pressure chambers comprise a printing region and a non-printing region; an ejecting nozzle provided at one end of the pressure chamber in the printing region; pressure means for varying a capacity in the pressure chamber according to a driving signal; a dummy nozzle provided at one end of the pressure chamber in the non-printing region, and has a shape set to have an aperture area at the ink ejecting side greater than an aperture area of the ejecting nozzle and to have a flow impedance same as that of the ejecting nozzle; and head driving means that selectively varies the capacity in the pressure chamber by applying the driving signal to the pressure means,

to eject ink from the ejecting nozzle, wherein, when selectively varying the capacity in the pressure chamber positioned at an end the printing region, the head driving means selectively varies the capacity in the pressure chamber in the non-printing region simultaneously;

moving means that relatively moves the ink jet head and a recording medium such that the recording medium passes a print position opposite to the ejecting nozzle; and

drive control means for driving the pressure means and the head driving means based upon a driving signal in accordance with image data.

5. An ink jet printer according to claim 4, wherein the aperture diameter of the ejecting nozzle at the side of the pressure chamber is set greater than an aperture diameter at the ink electing side, while an aperture diameter of the dummy nozzle at the side of the pressure chamber is set smaller than an aperture diameter at the ink ejecting side.

6. An ink jet printer according to claim 5, wherein the ejecting nozzle and the dummy nozzle are formed to have a symmetrical shape with respect to the ejecting direction of an ink droplet.